

International application No. PCT/FI 2004/000211

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B64C 1/38, F15D 1/02, F15D 1/12
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B64C, F15D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0354022 A2 (MINNESOTA MINING AND MANUFACTURING COMPANY), 7 February 1990 (07.02.1990), column 1, line 43; column 4, line 49 - line 56	1-11
	Pilly page	
X	US 3578264 A (THE BATTELLE DEVELOPMENT CORPORATION), 11 May 1971 (11.05.1971), column 1, line 66 - line 71, figures 10,14, abstract	1-11
-	- -	
Х	US 3776363 A (KUETHE), 4 December 1973 (04.12.1973), abstract	1-11
X	US 4284302 A (DREWS), 18 August 1981 (18.08.1981), column 2, line 11 - line 15, figure 1	. 1-11

<u> </u>			
X	Further documents are listed in the continuation of Box	C.	X See patent family annex.
* "A" "E" "L" "O" "P"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" "X" "Y"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family
Date of the actual completion of the international search 8 July 2004		Date o	of mailing of the international search report 1 3 -07- 2004
Swe Box Facs	te and mailing address of the ISA/ edish Patent Office 5055, S-102 42 STOCKHOLM imile No. +46 8 666 02 86	Lena	rized officer Nilsson/ JA A one No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.
PCT/FI 2004/000211

C (Continu	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*		Relevant to claim
X	US 4564959 A (ZAHN), 21 January 1986 (21.01.1986), column 1, line 48 - line 51, abstract	1-11
X	US 5200573 A (BL00D), 6 April 1993 (06.04.1993), figures 1-12, abstract	1-11
x	US 5289997 A (HARRIS), 1 March 1994 (01.03.1994), abstract	1-11
X	US 5836840 A (BUSTAMANTE ET AL), 17 November 1998 (17.11.1998), figure 6, abstract	1-11
(US 6131853 A (BAUER ET AL), 17 October 2000 (17.10.2000), column 7, line 12 - line 17; column 7, line 61 - line 67	1-11
(US 6276636 B1 (KRASTEL), 21 August 2001 (21.08.2001), column 2, line 26 - line 64; column 4, line 1 - line 26	1-11
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	/210 (continuation of second sheet) (January 2004)	

INTERNATIONAL SEARCH REPORT

Information on patent family members

30/04/2004

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	EP	0354022	A2	07/02/1990	AU BR JP PT	3923289 A 8903908 A 2081796 A 91369 A	08/02/1990 27/03/1990 22/03/1990 08/03/1990
	US	3578264	A	11/05/1971	DE FR GB US	1934246 A 2012571 A 1281899 A 3741285 A	22/01/1970 20/03/1970 19/07/1972 26/06/1973
	US	3776363	A	04/12/1973	NONE		
	US	4284302	Α	18/08/1981	NONE		
	US	4564959	A	21/01/1986	AU CA DE DE DK EP ES JP	560906 B 2894084 A 1222852 A 3320301 C 8316411 U 242784 A 0127811 A 288707 U,Y 60009906 A 842208 A	16/04/1987 06/12/1984 16/06/1987 08/11/1984 05/04/1984 05/12/1984 12/12/1984 16/01/1986 19/01/1985
Ì	US	5200573	Α .	06/04/1993	US	5378524 A	03/01/1995
	US	5289997	A	01/03/1994	AU . US WO	1912292 A 5108145 A 9218371 A	17/11/1992 28/04/1992 29/10/1992
	US	5836840	A	17/11/1998	NONE		
	US	6131853	A	17/10/2000	NONE	~	
ļ	US	6276636	B1	21/08/2001	NONE		

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America) The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))

for the purposes of the designation of the United States of America:					
I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.					
This declaration is directed to the international application of which	This declaration is directed to the international application of which it forms a part (if filing declaration with a strength of the international application of which it forms a part (if filing declaration with a strength of the international application of which it forms a part (if filing declaration with a strength of the international application of which it forms a part (if filing declaration with a strength of the international application of which it forms a part (if filing declaration with a strength of the international application of which it forms a part (if filing declaration with a strength of the international application of which it forms a part (if filing declaration with a strength of the international application of the internation o				
This declaration is directed to international application No. PCT/ to Rule 26ter).	his declaration is directed to international application No. PCT/				
I hereby declare that my residence, mailing address, and citizenship	D are as stated next to my name				
I hereby state that I have reviewed and understand the contents of it of said application. I have identified in the request of said application and I have identified below, under the heading "Prior Applications Organization, day, month and year of filing, any application for a pat States of America, including any PCT international application designation affiling date before that of the application on which foreign	I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United				
Prior Applications: Finnish Patent Application No. 200305	38, filed on 10 April 2003				
***************************************	*****				
37 C.F.R. § 1.56, including for continuation-in-part applications, may of the prior application and the PCT international filing date of the	I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.				
are believed to be true; and further that these statements were made made are punishable by fine or imprisonment as both and of the control o	I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.				
Folia DI II seco					
Name: ESKO PULKKA Residence: FI-45910 Voikkaa, Finland (city and either US state, if applicable, or country)					
Mailing Address: . Pahasaarentie .156 G, Fl-45910 Voikkaa, Finland					
Citizenshin. Finnish					
Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	Date: 28.3.204 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)				
Name:					
Residence:	***************************************				
Residence:					
Mailing Address:					
Citizenshin					
Citizenship:					
Inventor's Signature:	Date:				
This declaration is continued on the following sheet, "Continuation					
Form PCT/PO/101 (4.1)	on of Box No. VIII (iv)".				